## REMARKS

Claims 1, 4, 5, 7-13 and 15-20 are pending in the present application. Claims 8-13, 15, 18 and 19 are withdrawn. Claims 1, 4, 5, 16 and 17 herein amended. Claims 2, 3, 6 and 14 are herein canceled. No new matter has been presented.

## Claim Rejections - 35 U.S.C. § 103

Claims 1-5, 7, 14-16 and 20 were rejected under 35 U.S.C. § 103(a) as being unpatentable over **McCaffrey** (US 2001/0038450) in view of **Ryoji** (Engineering Materials, 1999); and claims 6 and 17 were rejected under 35 U.S.C. § 103(a) as being unpatentable over **McCaffrey** in view of **Ryoji**, and further in view of **Rapp** (US 6,602,464).

Favorable reconsideration is requested.

(1) Applicants respectfully submit that the invention as recited in the claims is nonobvious over the prior art because the invention as recited in the claims provides unexpected results over the prior art.

The results in Table 4 demonstrate that even though grounding is set in the photometry chamber as taught in McCaffrey, the background value is not suppressed, but that when an antistatic sheet is used, the background value is suppressed.

The Office Action dated February 10, 2009 takes the position that the results in Table 4 do not provide a close comparison with what is taught in McCaffrey. The Office Action states that Table 4 compares the effect of grounding the instrument and the effect of lining anti-static tape inside the measurement chamber, but that McCaffrey discloses lining the inside of the chamber with conducting material. (Office Action, February 10, 2009, page 2.)

However, the device in McCaffrey made of conductive material provides grounding. McCaffrey states that "a sample compartment of known devices must be *made of a conductive material* or some other means must be provided *to drain static charge* from the sample consumable." (Paragraph 15.) Thus, McCaffrey corresponds to the prior art example in the present specification in which aluminum foil is set at the undersurface, *i.e.*, in Example 3. As pointed out in Paragraph 93 of the present specification, the title of Example 3 is "Influence of Electrification of a Reagent Cartridge and Grounding Effect on the Measurement." And as explained in Paragraph 94, the aluminum foil provides grounding. The results in the present specification demonstrate unexpected results over the prior art, including McCaffrey, and thus, the present invention is non-obvious over the prior art.

In the Amendment dated April 23, 2009 Applicants pointed out that the present invention provides unexpected results as noted above. The Office Action dated May 29, 2009 did not consider this argument. Applicants respectfully request consideration of the above argument.

(2) Applicants respectfully submit that McCaffrey in view of Ryoji does not teach or suggest "making an atmosphere surrounding a reaction vessel and/or a reaction vessel in a photometry chamber electrically constant" as recited in amended claim 1.

McCaffrey discloses a method for detecting light produced by chemiluminescence and an ATP-chemilunescence detection device. The device includes photodetecting transducers for detecting luminescence. The device is made of a conductive material or "some other means" is provided for draining static charge. (Paragraph 15.)

Application No. 10/561,538

The Office Action acknowledged that McCaffrey does not disclose what the "some other

means" are. (Office Action, page 2.) The Office Action cited Ryoji for teaching static electricity

removal. (Office Action, page 2.) Ryoji discloses, in the title, static electricity removal and

static electricity elimination materials, and persistant static elimation ABS resins "Novally E

series." Thus it is the position of the Office Action that the method in McCaffrey, which teaches

a need for static elimination, modified to include static elimination materials as taught in Ryoji

would provide an electrically constant chamber because there would be no static. (Office Action,

page 4.)

However, even if static charge can be drained from the chamber, for instance, by ground,

an atmosphere in the chamber is not necessarily electrically constant. Even when static

electricity can be removed (drained) from the photometry chamber by using grounding, the

atmosphere surrounding a reaction vessel in the photometry chamber cannot be electrically

constant.

For instance, when the grounding is connected with the photometry chamber, the static

electricity flows out from the charged photometry chamber through the grounding. Therefore,

the static electricity can be removed from the charged photometry chamber or charged reaction

vessel in the photometry chamber. However, electric charge in an atmosphere surrounding a

reaction vessel cannot flow out through the grounding. Therefore, the grounding cannot make

the atmosphere surrounding the reaction vessel in the photometry chamber electrically constant.

(See specification, paragraphs 3, 4 and 93-96.)

- 11 -

Amendment under 37 C.F.R. §1.114 Attorney Docket No. 053362

Application No. 10/561,538

Moreover, even when the measurement is performed using the photometry chamber,

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wherein the photometry chamber is made of Novalloy E and it is connected to the grounding, the

Novalloy E cannot make an atmosphere surrounding a reaction vessel and/or an atmosphere

surrounding the reaction vessel in the photometry chamber electrically constant. Ryoji discloses

the use of Novally E, which is a "Persistent static elimination ABS resin." (See Ryoji, Title.)

Additionally, according to Ryoji, Novalloy E is electrically conductive material, just like

aluminum. (See the complete English translation of Ryoji submitted with the concurrently filed

Information Disclosure Statement, specifically at page 1, lines 18-28; page 2, lines 14-19 and 24-

28; page 3, lines 8-15; page 3, line 18 to page 4, line 6; page 5, lines 22-24 and page 6, line 19 to

page 7, line 14.)

Therefore, when the photometry chamber or reaction vessel is made with the Novalloy E

and according to the disclosure of McCaffrey which states that "Conventionally, a sample

compartment of known devices must be made of a conductive material" (paragraph 15), the

photometry chamber is conductive.

This conductive photometry chamber is the same as the photometry chamber of which an

aluminum foil was set at the undersurface. (Specification, page 38, lines 6-7.) In Example 3

which uses this photometry chamber, when the reagent cartridge becomes electrically charged,

the electric charge is removed through the aluminum foil as the grounding. (Specification page

38, lines 16-17.) However, as is clear from Table 4, the background value can not be suppressed

even though the electric charge of the reagent cartridge is removed by setting the aluminum foil

at the undersurface of the photometry chamber. From this result, it is demonstrated that

- 12 -

electrostatic charge of the reagent cartridge does not affect the increase of background value.

That is, it is understood from the result that background value cannot be suppressed even though

the grounding is set in the photometry chamber. (Specification, page 39, line 13 to page 40, line

1.)

Thus, even when the measurement is performed using the photometry chamber, wherein

the photometry chamber is made of Novalloy E and it is connected to the grounding, the

objective of the present invention cannot be accomplished (Background is not able to be

reduced.). That is, Novalloy E cannot make an atmosphere surrounding a reaction vessel and/or

an atmosphere surrounding the reaction vessel in the photometry chamber electrically constant.

As explained above, even when static electricity is removed from the photometry

chamber made of conductive material through the grounding, it is impossible to make an

atmosphere surrounding a reaction vessel and/or an atmosphere surrounding the reaction vessel

in the photometry chamber electrically constant. Therefore, McCaffrey in view of Ryoji does

not teach or suggest all of the elements as recited in claim 14.

(3) Applicants respectfully submit that it would not have been obvious to combine the

teachings of McCaffrey and Ryoji.

McCaffrey discloses that "many photodetecting transducers used for the detection of

luminescence are very sensitive to static charge." (McCaffrey, paragraph 15, lines 1-3.) It is

known that resin easily charges with electricity. Novalloy E disclosed in Ryoji is made of ABS

resin. (Ryoji, Title.) Therefore, one of ordinary skill in the art would not use Novalloy E which

is made of **resin** as a material of the photometry chamber in McCaffrey.

- 13 -

In addition, as is mentioned in McCaffrey, "conventionally, a sample compartment of

known devices <u>must be made of a conductive material</u>." (McCaffrey, paragraph 15, lines 1-7.)

In general, a photometry chamber is made of metal which is a conductive material, and metal is

much more conductive than Novalloy E which is resin. Therefore, one of ordinary skill in the art

would not select resin as a material of photometry chamber.

(4) Applicants respectfully submit that amended claim 1 (including the limitations of

cancelled claim 6) and claim 17 would not have been obvious over McCaffrey in view of Ryoji

and further in view of Rapp because Rapp is in a non-analogous art.

The Office Action acknowledged that McCaffrey in view of Ryoji does not disclose

"shutting an opening part of the vessel holding the solution with a sheet, or a method for

covering the surface of the solution in the reaction vessel with a substrate insoluble to the

solution. (Office Action, page 3.) The Office Action cited Rapp for teaching the use of an oil

layer to seal a surface of an aqueous solution.

Rapp discloses treating agricultural animal waste to minimize odorous emissions. (Col. 2,

lines 31-39.) The Treatment includes the use of oil and activated carbon applied to the surface of

liquid animal waste creating a seal.

The present invention is in the art of spectral measurement and improvement of the

accuracy of the measurement in a spectrophotometer. By contrast, Rapp discloses methods of

minimizing odorous emissions from agricultural animal waste. The art of treating agricultural

waste is not reasonably pertinent to the art of the present invention.

- 14 -

Amendment under 37 C.F.R. §1.114

Attorney Docket No. 053362

Application No. 10/561,538

The Office Action appears to take the position that sealing an aqueous surface with oil

film is knowledge that is generally available to one of ordinary skill in the art, and that Rapp is

merely cited to demonstrate this knowledge. However, according to MPEP § 2141.01(a), "to

rely on a reference under 35 U.S.C. § 103, it must be analogous prior art." As noted above, the

art of treating agricultural waste of Rapp is not reasonably pertinent to the art of the present

invention, and thus, is not analogous art.

(5) Applicants respectfully submit that amended claims 1 (including the limitations of

cancelled claim 6) and claim 17 are non-obvious because it would not have been obvious to one

of ordinary skill in the art to combine the teachings of sealing odorous emissions in Rapp with

the methods of draining static charge in McCaffrey.

The Office Action stated that McCaffrey discloses the use of "some other means" for

draining electric charge and takes the position that it would have been obvious to use the sealing

method taught in Rapp. (Office Action, pages 3-4.) However, Rapp merely discloses sealing

odorous emissions. Rapp does not teach that the oil layer would block contact to the atmosphere

and prevent electric charge from transferring to the solution. Thus, it would not have been

obvious to one of ordinary skill in the art to combine the methods of Rapp with the methods of

McCaffrey.

In the Amendment dated April 23, 2009, Applicants pointed out that it would not have

been obvious to one of ordinary skill in the art to combine the teachings of Rapp and McCaffrey.

However, the Office Action did not consider this argument. Applicants request consideration of

this argument.

- 15 -

Regarding the limitation of "shutting an opening part of the reaction vessel," the Office

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Action takes the position that this feature is well known in the art. (Office Action, page 4.) It

may be well known to shut an opening part of the reaction vessel to avoid contamination of dust,

when the reaction vessel having some material is stored. However, Applicants respectfully

submit that it is not well known in the art to shut an open part of the reaction vessel when the

luminescence is measured, and the Office Action has not provided any evidence to demonstrate

that this feature is well known.

The Office Action states that the Office does not have an obligation to provide evidence

to demonstrate this feature. (Office Action, page 5.) However, Applicants respectfully submit

that since Applicants have traversed the Examiner's assertion of Official Notice, the Examiner

must provide documentary evidence to support the assertion of Official Notice. The MPEP at

section 2144.03(C) states that

If applicant adequately traverses the examiner's assertion of official notice, the examiner must provide documentary evidence in the next Office action

if the rejection is to be maintained.

In the previous response, Applicants pointed out that it is not well known in the art to

shut an open part of the reaction vessel when the luminescence is measured. Thus, contrary to

the Examiner's statement that there is no obligation to provide evidence, the Examiner is

required to provide documentary evidence to support the assertion of Official Notice.

For at least the foregoing reasons, claims 1, 4, 5, 7, 16, 17 and 20 are patentable over the

cited references. Accordingly, withdrawal of the rejection of claims 1, 4, 5, 7, 16, 17 and 20 is

hereby solicited.

- 16 -

Amendment under 37 C.F.R. §1.114

Attorney Docket No. 053362

Application No. 10/561,538

In view of the aforementioned amendments and accompanying remarks, Applicants

submit that the claims, as herein amended, are in condition for allowance. Applicants request

such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the

Examiner is requested to contact Applicants' undersigned attorney to arrange for an interview to

expedite the disposition of this case.

If this paper is not timely filed, Applicants respectfully petition for an appropriate

extension of time. The fees for such an extension or any other fees that may be due with respect

to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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- 17 -